

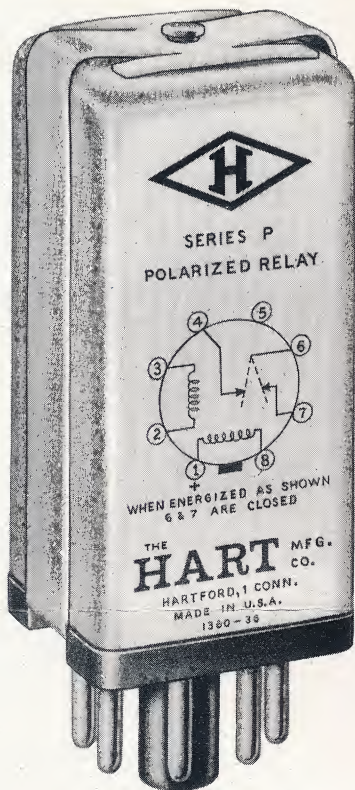


PHOTO APPROXIMATELY 1½ LIFE SIZE.

HIGH SPEED POLARIZED RELAY



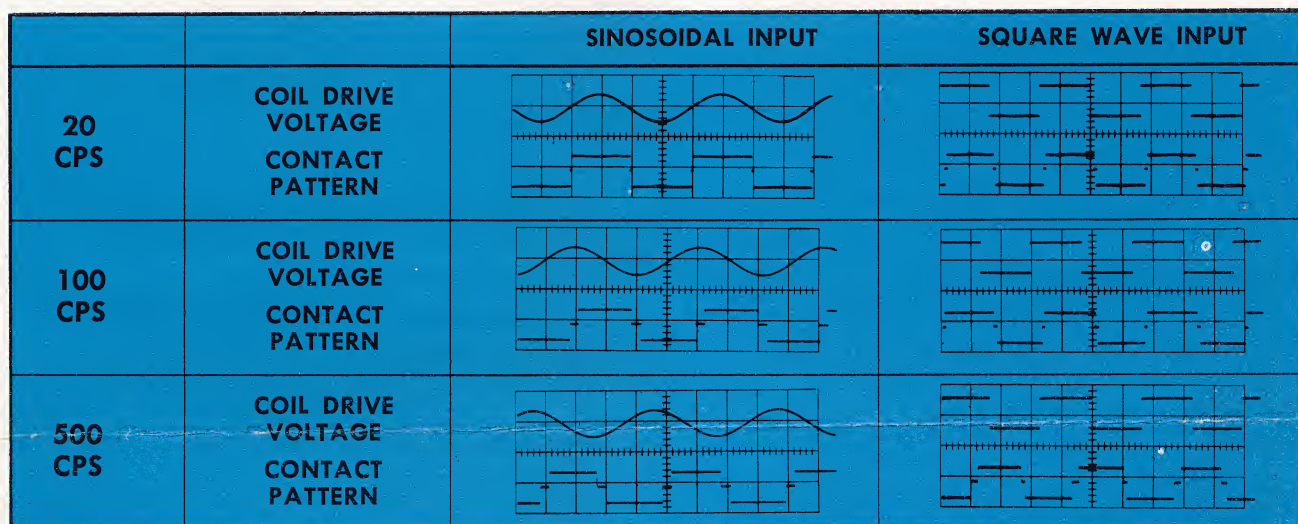
SERIES
P

- High Speed Switching
- Control Programming
- Telegraphy
- Pulse Forming
- Pulse Repeating
- Circuit Analyses

The Series P relay is a high speed, polarized, single pole, double throw, bounce free relay.

Due to its unique design it offers the optimum of stability and dependability demanded by today's exacting requirements.

OSCILLOGRAMS



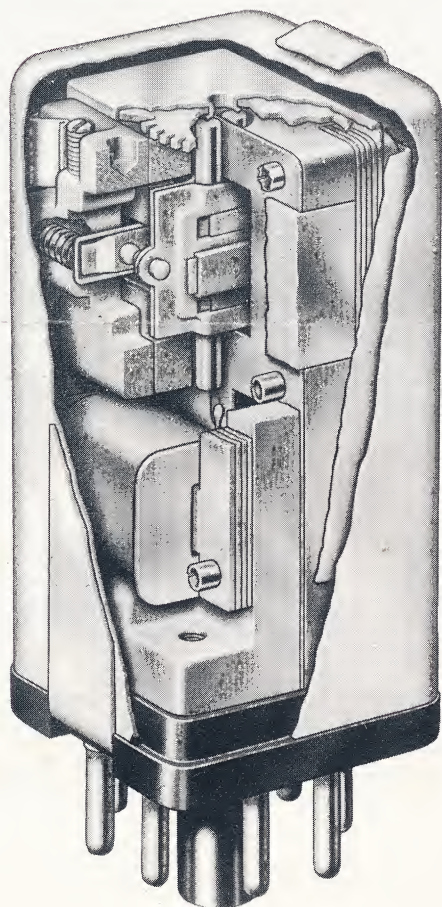
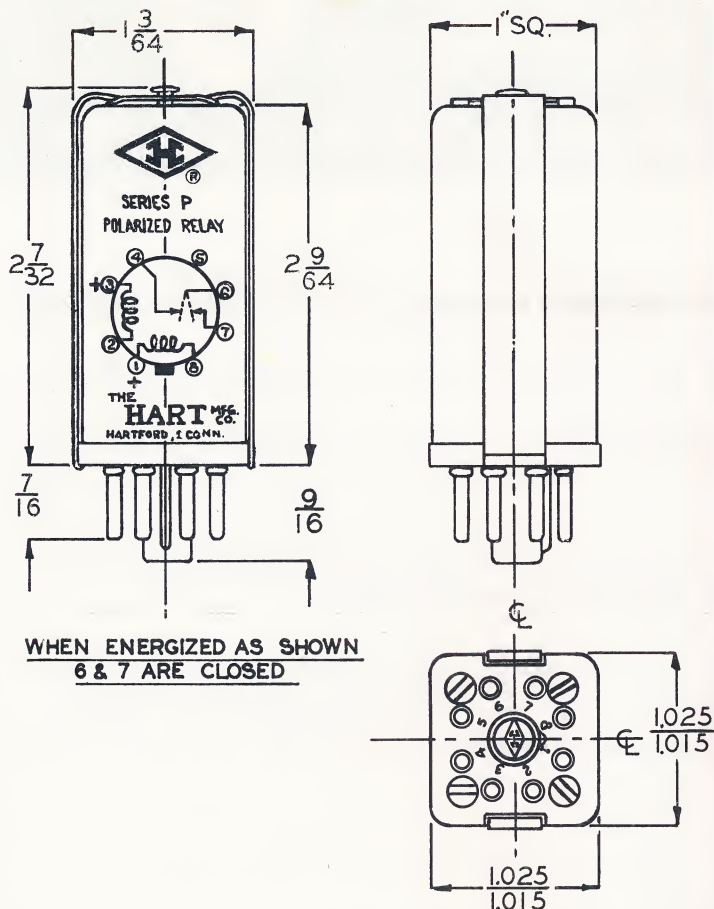
These curves are photographic reproductions of actual test results

This relay fills the need in the telegraphic field, for a compact, lightweight switching relay capable of giving long hours of continuous trouble free operation, in both slow and high speed operations.

In control programming and computer circuits, the unusual "Memory" feature of this relay can be used to good advantage. A momentary pulse of a few milliseconds duration is sufficient to lock in a selected contact which will remain in that position until another pulse, either of an opposite polarity or to the opposite coil, is fed into the relay.

Being a polar relay of dual coil construction, the Series P relay may be used in differential operation, where a difference of current, equal to the sensitivity of the relay, between the two coils is sufficient to operate the relay.

The Series P relay is essentially an extremely high speed bi-stable relay which with sufficient drive power can repeat and shape pulses at a rate well in excess of 1000 cycles per second. Due to its bounce free character, distortion factors can virtually be eliminated from the circuit.



Bulletin P-29

CONTACTS: Single pole double throw magnetically latched silver contacts are rated at 1 Amp. 28 V. DC, 115 V. AC, resistive, for 100,000 operations. Employing silver-nickel versus palladium-ruthenium contacts telegraphic loads of 65 MA, 120 V. DC, are suppressed, will satisfactorily be switched for hundreds of millions of operations.

COILS: Relays are available with per-coil resistance of 160, 1000 or 4000 ohms.

TEMPERATURE: 0°C to 55°C—maximum continuous coil dissipation is .7 watts per coil.

SHOCK and VIBRATION: Excellent shock and vibration immunity for socket mounted applications of this type of relay.

ENCLOSURE: Present enclosure is a removable dust cover, securely clamped to the plug in base which is of the standard octal type.

SPEED: The Series P relay will effectively switch at rates in excess of 500 cps with contact closures of approximately 90% of the duty cycle.

MAGNETIC INTERACTION: Magnetic interaction is kept to a minimum and will not effect any circuit other than the most sensitive.

ADJUSTMENT: Proper adjustments are made at the factory, but field adjustments can be made by accessible adjusting screws.

MOUNTING ARRANGEMENTS: Use a standard octal socket.

ORDERING INFORMATION: In most applications where the electronic circuits are somewhat involved and it is not practical to try to detail all the available information, control engineers are prepared to work out a variation to meet your specific requirements.

Call or write today to:

HART MANUFACTURING CO.

110 BARTHOLOMEW AVENUE • HARTFORD, CONNECTICUT 06101

one of  **THE OAK COMPANIES**
Executive Offices — Crystal Lake, Illinois